

Commonwealth of Kentucky
Division for Air Quality

PERMIT APPLICATION SUMMARY FORM

(For all sources except PSD and true minor sources)

Completed by: Kenneth Liberty

GENERAL INFORMATION:

Name: Atofina Chemicals, Inc.
Address: 4444 Industrial Parkway, Calvert City, KY 42029
Date application received: 12/18/01
SIC/Source description: 2819
EIS #: 21-157-00007
Application log number: 54330
Permit number: F-00-030

APPLICATION TYPE/PERMIT ACTIVITY:

<input type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input checked="" type="checkbox"/> Permit modification	<input type="checkbox"/> Conditional major
__Administrative	<input type="checkbox"/> Title V
__Minor	<input checked="" type="checkbox"/> Synthetic minor
<input checked="" type="checkbox"/> Significant	<input type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input type="checkbox"/> NSPS	<input type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input checked="" type="checkbox"/> Netted out of PSD/NSR	<input type="checkbox"/> Not major modification per 401 KAR 51:017, 1(23)(b) or 51:052,1(14)(b)	

MISCELLANEOUS:

☐ Acid rain source
☐ Source subject to 112(r)
☐ Source applied for federally enforceable emissions cap
☐ Source provided terms for alternative operating scenarios
☐ Source subject to a MACT standard
☐ Source requested case-by-case 112(g) or (j) determination
☐ Application proposes new control technology
☐ Certified by responsible official
☐ Diagrams or drawings included
☐ Confidential business information (CBI) submitted in application
☐ Pollution Prevention Measures
☐ Area is non-attainment (list pollutants):

EMISSIONS SUMMARY:

Pollutant	Actual (tpy)	Potential (tpy)
VOC (ODS)		21.11

SOURCE PROCESS DESCRIPTION:

F-134a Thermal Oxidizer Increase- Atofina proposes to increase the feed rate to their thermal oxidizer (T.O.) from 3460 to 6500 lbs/hr. An acid scrubber will be installed prior to the T.O. to reduce HCl throughput.

R-22 Tansloading- Atofina proposes to use existing equipment for receiving, storing and dispensing R-22 refrigerant, also called F-22 or chlorodifluoromethane (CAS 75-45-6). A second ODS, F-124, will also be received. The F-22 and F-124 will be combined with F-143a or F-142b to form the new blends F-408a or F-409a, respectively. All ODS emission are fugitive.

Atofina has chosen to combine these two significant revisions into one log number for simplicity. Netting from a 5-year contemporaneous period was performed to avoid PSD review. A thorough netting review is presented in the F-00-030 Statement of Basis.

EMISSION AND OPERATING CAPS DESCRIPTION:

Atofina has requested the following operating limits:

F-134a T.O. :

- 1) The combustions chamber temperature shall be between 2100°F and 2600°F at all times.
- 2) The waste gas feed rate shall be at or below 6,500 lb/hr at all times.

R-22 and Blending Area

- 1) R-22 transloading (receiving) - 10 million lbs/yr
- 2) F-124 receiving - 0.5 million lbs/yr
- 3) R-22 transloading (loading) - 10 million lbs/yr
- 4) Blend F-408a loading - 1.0 million lbs/yr
- 5) Blend F-409a loading - 1.3 million lbs/yr